RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

| Application Serial Number: | 10/549.460. | |
|----------------------------|-------------|---|
| Source: | PCT/10 | ~ |
| Date Processed by STIC: | 10/3/05 | _ |

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PCT

RAW SEQUENCE LISTING DATE: 10/03/2005
PATENT APPLICATION: US/10/549,460 TIME: 14:10:42

Input Set : A:\ASZD-P01-852.txt

Output Set: N:\CRF4\10032005\J549460.raw

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3 <110> APPLICANT: Dahl, Niklas
     5 <120> TITLE OF INVENTION: Genes Associated with Obesity and Methods for Using the Same
     7 <130> FILE REFERENCE: ASZD-P01-852
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/549,460
C--> 9 <141> CURRENT FILING DATE: 2005-09-16
     9 <150> PRIOR APPLICATION NUMBER: GB 0306185
     10 <151> PRIOR FILING DATE: 2003-03-19
    12 <160> NUMBER OF SEQ ID NOS: 75
    14 <170> SOFTWARE: PatentIn version 3.2
    16 <210> SEQ ID NO: 1
    17 <211> LENGTH: 2986
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1740

Input Set : A:\ASZD-P01-852.txt

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68 qactqqaqqa tqctggccca taagctgaac ctggacaggt acttgaatta ctttgccacc
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87
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89 Ser Tyr Ser Ser Thr Ser Arg Asp Asp Phe Phe His Glu Leu Pro
90
        50
                            55
92 Glu Thr Phe Pro Ser Asp Pro Pro Glu Pro Leu Pro His Phe Leu Ile
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95 Glu Pro Glu Glu Ala Tyr Ile Val Lys Asn Lys Pro Val Asn Leu Tyr
98 Cys Lys Ala Ser Pro Ala Thr Gln Ile Tyr Phe Lys Cys Asn Ser Glu
               100
                                   105
101 Trp Val His Gln Lys Asp His Ile Val Asp Glu Arg Val Asp Glu Thr
            115
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                                                     125
104 Ser Gly Leu Ile Val Arg Glu Val Ser Ile Glu Ile Ser Arg Gln Gln
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107 Val Glu Glu Leu Phe Gly Pro Glu Asp Tyr Trp Cys Gln Cys Val Ala
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Input Set : A:\ASZD-P01-852.txt

Output Set: N:\CRF4\10032005\J549460.raw

| 114 | | | | 180 | | | _ | _ | 185 | _ | _ | _ | _ | 190 | | |
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| 117 | | | 195 | | | | | 200 | | | | | 205 | | _ | _ |
| 119 | Pro | | Ala | Glu | Val | Glu | Trp | Leu | Lys | Asn | Glu | Asp | Ile | Ile | Asp | Pro |
| 120 | | 210 | | | | | 215 | | | | | 220 | | | | |
| 122 | Val | Glu | Asp | Arg | Asn | Phe | Tyr | Ile | Thr | Ile | Asp | His | Asn | Leu | Ile | Ile |
| 123 | 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| 125 | Lys | Gln | Ala | Arg | Leu | Ser | Asp | Thr | Ala | Asn | Tyr | Thr | Cys | Val | Ala | Lys |
| 126 | | | | | 245 | | | | | 250 | | | | | 255 | |
| 128 | Asn | Ile | Val | Ala | Lys | Arg | Lys | Ser | Thr | Thr | Ala | Thr | Val | Ile | Val | Tyr |
| 129 | | | | 260 | | | | | 265 | | | | | 270 | | |
| 131 | Val | Asn | Gly | Gly | Trp | Ser | Thr | Trp | Thr | Glu | Trp | Ser | Val | Cys | Asn | Ser |
| 132 | | | 275 | - | _ | | | 280 | | | _ | | 285 | _ | | |
| 134 | Arq | Cvs | Glv | Arq | Gly | Tyr | Gln | Lys | Arq | Thr | Arq | Thr | Cys | Thr | Asn | Pro |
| 135 | | 290 | • | | • | • | 295 | • | J | | | 300 | • | | | |
| | Ala | | Leu | Asn | Glv | Gly | Ala | Phe | Cvs | Glu | Glv | Gln | Ser | Val | Gln | Lvs |
| | 305 | | | | 1 | 310 | | | -2- | | 315 | | | | | 320 |
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| 141 | | | -1- | | 325 | | - 1 | | | 330 | 1 | 3 | | | 335 | P |
| | Ser | Lvs | Trn | Ser | | Cys | Glv | Thr | | | Thr | His | Trp | Ara | | Ara |
| 144 | | _,, | | 340 | | O _I D | 011 | | 345 | 0 10 | | | | 350 | 5 | 5 |
| | Glu | Cvs | Thr | | Pro | Ala | Pro | Lvs | | Glv | Glv | Lvs | Asp | | Asp | Glv |
| 147 | 0 _0 | 975 | 355 | | | | | 360 | | 0-1 | 1 | -1- | 365 | 07.0 | P | 0-1 |
| | T.e.11 | Val | | Gln | Ser | Lys | Asn | | Thr | Asp | Glv | Leu | | Met | Gln | Ser |
| 150 | LCu | 370 | шси | 0111 | DCI | Lys | 375 | Cyb | 1114 | 1100 | 017 | 380 | Cyb | 1100 | 0111 | 001 |
| | Dha | | Туг | Pro | Tla | Ser | | Glu | Gl n | Δrα | Thr | | Δen | G111 | Tur | Glv |
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| | | Sor | Sar | Δ] = | Pro | Asp | Sar | Aen | Δen | Val | | T.011 | Туг | Val | Glv | |
| 156 | FIIC | 261 | 561 | ліа | 405 | пор | 361 | АБР | АБР | 410 | AIG | пса | - y - | Val | 415 | 110 |
| | TeV. | Tla | ב ו ג | 17a l | | Val | Cvc | T.OU | λla | | Car | T/al | T-1 | 1721 | | T. 211 |
| 159 | val | 116 | AIG | 420 | 116 | vai | Cys | пси | 425 | 116 | DCI | vai | Val | 430 | ALU | пси |
| | Dho | Wa I | Tazar | | Larc | Asn | uic | 720 | | Dho | Glu | Sar | 7 cn | | Tla | Acn |
| 162 | FILE | vai | 435 | Arg | цуъ | ASII | пть | 440 | Asp | FIIC | Giu | SET | 445 | 116 | 116 | тэр |
| | 602 | 602 | | T 011 | 7 cn | Gly | C1** | - | Cln | Dro | 1727 | λan | | Tarc | λla | λla |
| 165 | SCI | 450 | AIa | пец | ASII | GIY | 455 | FIIC | GIII | FIO | Val | 460 | 116 | цуз | лια | AIG |
| | λνα | | λαn | T 011 | Len | Ala | | Dro | Dro | Λcn | Len | | Car | λla | 712 | Δ] = |
| | 465 | GIII | Asp | пеп | пеп | 470 | vai | PIO | PIO | Asp | 475 | 1111 | SET | Ата | AIG | 480 |
| | | III | 7 | a1 | Desc | | TT= ==0 | 77. | T 011 | 1114 - | | 17-1 | Cor | 7.00 | Tira | |
| | Met | IAT | Arg | GIY | | Val | IÀI | Ala | ьеи | | Asp | val | ser | Asp | цуS 495 | TIE |
| 171 | Desc | Mot | TTI- m | 7 ~~ | 485 | Desc | T1. | T 0 | 7 ~~ | 490 | T 011 | Dwo | 7 00 | T 011 | | T10 |
| | PIO | Met | IIII | | ser | PIO | 116 | пеп | 505 | PIO | neu | PIO | ASII | | цуѕ | Ile |
| 174 | T | 17-7 | | 500 | mb | 0 | | 37- | | mla sa | D | ~1 ~ | 7 | 510 | T | C |
| | тĀг | vai | _ | Asn | Thr | Ser | GIY | | vaı | Thr | PIO | GIII | _ | Asp | ьец | ser |
| 177 | ~ 3 | 5 1 | 515 | . | • | • | a | 520 | ~ 1 | 14 - L | m1 | ~1 | 525 | . | T | a 1 |
| | GIU | | Thr | ser | гÀг | Leu | | Pro | GIN | met | Thr | | ser | Leu | ьеu | GIU |
| 180 | | 530 | | - | | . | 535 | | a 2 . | 0 | T | 540 | 7 | a z | ml | 7 |
| | | GIU | Ата | Leu | ser | Leu | гля | Asn | GIN | ser | | АТА | arg | GIN | Inr | |
| | 545 | _ | _ | _, | | 550 | ~~ | _ | -1 | _ | 555 | . . | ~ ? | ~7 | | 560 |
| | Pro | Ser | Cys | Thr | | Phe | Gly | Ser | Phe | | ser | Leu | GLY | Gly | | Leu |
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Input Set : A:\ASZD-P01-852.txt

Output Set: N:\CRF4\10032005\J549460.raw

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| 188 | Ile | Val | Pro | | Ser | Gly | Val | Ser | Leu | Leu | Ile | Pro | Ala | | Ala | Ile |
| 189 | | | | 580 | • | _ | | | 585 | | _, | | ' | 590 | _ | ~-3 |
| | Pro | Gln | | Arg | Val | Tyr | GIu | | Tyr | Val | Thr | Val | | Arg | Lys | GIu |
| 192 | | | 595 | _ | _ | | _ | 600 | _ | ~3 | - | _ | 605 | 1 | n | |
| | Thr | | Arg | Pro | | | _ | Asp | Ser | GIn | Thr | | Leu | Thr | Pro | Val |
| 195 | | 610 | _ | ~3 | | | 615 | | | | m1 | 620 | | **- 1 | **- 7 | T |
| | | ser | Cys | GIY | Pro | | GIY | Ala | Leu | ьeu | | Arg | Pro | val | vaı | |
| | 625 | 10 - L | *** - | TT ! _ | ~ | 630 | 3 | D | 3 | mla | 635 | 7 | Ш | T | T1. | 640 |
| | Thr | мет | HIS | HIS | | Ala | Asp | Pro | Asn | 650 | GIU | Asp | тър | гуѕ | 655 | Leu |
| 201 | T 011 | T | 7 cm | C1 5 | 645 | ת 1 ת | C1 n | C1., | Gln | | C7.11 | 7 cn | 37-1 | Wa I | | Tal |
| 203 | ьеu | гур | ASII | 660 | AIA | Ата | GIII | GIY | 665 | пр | Gru | Asp | vai | 670 | vai | Vai |
| _ | G137 | G] 11 | Gl 11 | | Dhe | Thr | Thr | Pro | Cys | Tvr | Tle | Gln | Len | | Δla | Glu |
| 207 | O _T y | OI u | 675 | 11011 | | | | 680 | C ₁ D | -1- | | · | 685 | op | | |
| | Ala | Cvs | | Ile | Leu | Thr | Glu | | Leu | Ser | Thr | Tvr | | Leu | Val | Glv |
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| | 705 | | | | • | 710 | | | - | • | 715 | - | | | | 720 |
| 215 | Gly | Pro | Leu | Cys | Cys | Ser | Ser | Leu | Glu | Tyr | Ser | Ile | Arg | Val | Tyr | Cys |
| 216 | | | | | 725 | | | | | 730 | | | | | 735 | |
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| 219 | | | | 740 | | | | | 745 | | | | | 750 | | |
| | Gln | Thr | _ | Gly | Gln | Leu | Leu | | Glu | Pro | Lys | Ala | | His | Phe | Lys |
| 222 | _ | | 755 | | | _ | | 760 | _ | | • | | 765 | | • | _ |
| | Gly | | Thr | His | Asn | Leu | | Leu | Ser | Ile | His | | Ile | Ala | His | Ser |
| 225 | _ | 770 | _ | | _ | | 775 | | . | | a1 | 780 | - 1 - | D | Dh - | |
| | | Trp | гàг | ser | гля | | Leu | Ala | Lys | Tyr | 795 | GIU | тте | Pro | Pne | 800 |
| | 785 | 1701 | T~~ | Co.~ | C1 | 790 | Gl n | λνα | Asn | T 011 | | Cvc | Thr | Dho | Thr | |
| 230 | птѕ | vai | пр | ser | 805 | SEL | GIII | Arg | ASII | 810 | nis | Cys | 1111 | FIIC | 815 | пеп |
| | Glu | Ara | Dhe | Ser | | Δen | Thr | Val | Glu | | Val | Cvs | Lvs | T.e.i | | Val |
| 234 | 014 | 9 | 1110 | 820 | Leu | 1.011 | | • • • • | 825 | | | O _I D | | 830 | 075 | |
| | Ara | Gln | Val | | Glv | Glu | Glv | Gln | Ile | Phe | Gln | Leu | Asn | | Thr | Val |
| 237 | 5 | | 835 | | 2 | | | 840 | | | | | 845 | • | | |
| 239 | Ser | Glu | Glu | Pro | Thr | Gly | Ile | Asp | Leu | Pro | Leu | Leu | Asp | Pro | Ala | Asn |
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| 242 | Thr | Ile | Thr | Thr | Val | Thr | Gly | Pro | Ser | Ala | Phe | Ser | Ile | Pro | Leu | Pro |
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| 249 | | Δ | | 900 | | _ | | | 905 | _, | ~-3 | | | 910 | | _ |
| | Asn | Tyr | | Ala | Thr | Lys | Ser | | Pro | Thr | GIY | Val | | Leu | Asp | Leu |
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| | Trp | | Ala | GIN | Asn | Pne | | Asp | Gly | ASN | ьeu | | мет | ьeu | нта | AIG |
| 255 | ₹7 ~ T | 930 | 61 | C11 | Mo+ | G1 ** | 935 | น่ะ | رواي | Th∽ | v-1 | 940 | Ser | Len | Δ 1 = | Δl = |
| | | ьeu | GIU | GIU | Mec | 950 | Arg | пты | Glu | TIIL | 955 | val | Ser | neu | AId | 960 |
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Input Set : A:\ASZD-P01-852.txt

Output Set: N:\CRF4\10032005\J549460.raw

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DATE: 10/03/2005

PATENT APPLICATION: US/10/549,460

TIME: 14:10:43

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date